Appl. No. 10/037,048

Attorney Docket No. 10541-887

## I. Listing of Claims

- 1. (Cancelled)
- 2. (Currently Amended): A method for manufacturing a transverse leaf spring, said method comprising the steps of:

providing [[a]] an inflatable forming means and a mold adapted to receive said forming means, said forming means having a tapered width over at least a portion of its length and pivot portions of increased height;

partially inflating said forming means;

installing and stretching a pre-braided tubular fiberglass structure over said partially inflated forming means, said pre-braided structure comprising a plurality of elongated fibers arranged to form an elongated, elastic tubular structure;

placing said forming means and said pre-braided structure into a mold cavity defined by interior walls of said mold;

injecting a resin material into said mold to cover said fibers <u>before fully</u> inflating said forming means;

after injection of said resin material, using fully inflating said forming means to apply pressure to said mold cavity to press said fiberglass structure and said resin material against said interior walls of said mold cavity; and

curing said resin material to create an integrated leaf spring corr ponent.

3. (Original): The method of claim 2 wherein said forming means further comprises an elastomeric bladder adapted to fit closely within said mold cavity.

Appl. No. 10/037,048

Attorney Docket No. 10541-887

- 4. (Original): The method of claim 3 wherein said step of applying pressure further comprises inflating said bladder when in said mold cavity.
- 5. (Previously presented): The method of claim 2 further comprising the step of removing said component from said mold cavity, and wherein the step of curing said component is achieved outside of said cavity.
- 6. (Previously presented): The method of claim 2 wherein said tubular fiberglass structure is radially and longitudinally elastic.
- 7. (Currently Amended): A system for manufacturing a transverse leaf spring, said system comprising:

an inflatable forming means having a shape corresponding to said leaf spring, said shape defining a beam tapering in width over a portion of its length and pivot portions of increased height;

means for placing and stretching a pre-braided tubular fiberglass structure over said forming means, said pre-braided structure comprising a plurality of elongated fibers arranged to form an elongated, elastic tubular structure, such that the forming means extends axially within an interior portion of the tubular structure:

a mold cavity adapted to receive said forming means and said pre-braided structure:

means for injecting a resin material into said mold cavity; and

a means for inflating said forming means, whereby said tubular structure and said resin material are pressed together against the mold cavity.

Appl. No. 10/037,048

Attorney Docket No. 10541-887

- 8. (Original): The system of claim 7 wherein said forming means further comprises an elastomeric bladder adapted to fit closely within said mold cavity.
  - 9. (Cancelled).
- 10. (Original): The system of claim 7 wherein said tubula fiberglass structure further comprises a plurality of fiberglass fibers extending helically in an interwoven fashion in a tubular shape.
  - 11. (Cancelled)
- 12. (Previously presented): The method of claim 2 wherein said plurality of elongated fibers are formed from groups of generally aligned, multiple strands of fibers, each of said groups being interwoven into said pre-braided fiber structure.
- 13. (Original): The method of claim 12 wherein a plurality of said groups extend helically around said structure to form said tubular shape.

14-15. (Cancelled)